

INSTALLATION ENGINEERING

I. INSTRUMENT

A. Name Variable Magnification Tracing Projector
B. Manufacturer Bausch & Lomb
C. Contract Number 705 Task 3

II. PHYSICAL FEATURES

A. Number of Component Parts One
B. Dimensions of the Largest Component Part:
Length Ft. In. Height Ft. In.
Width Ft. In.
C. Weight of Largest Component Part 600 lbs.
D. Total Weight of Instrument
E. Overall Dimensions Assembled:
Length 4 Ft. 6 In. Height 5 Ft. 3 In.
Width 2 Ft. 7 In.
F. Type of Base of Mount:
Flat Three Point Suspension Four Point Suspension X
G. Does Instrument have built-in mobility? yes
H. Is the instrument particularly sensitive to vibration? yes
I. Are any special or unusual tools or fixtures necessary or advisable
for the installation or maintenance of this equipment? No

III. UTILITIES

	AC	DC
A. Electrical:		
Voltage	<u>115</u> Volts <u>±</u> <u>10</u> Volts	<u> </u>
Current	<u>15</u> Amps	<u> </u>
Frequency	<u>60</u> cps	
Nr. of phases	<u> </u>	
Nr. of wires	<u>2+ ground</u>	
Power required by equipment	<u>420</u> Watts	<u> </u> Watts
Type of outlet required:	<u>Two Prong</u> , <u>Three Prong</u> <u>X</u>	
Twist Lock <u> </u> , Permanent Installation <u> </u>		

Should the equipment be shielded, either from external electro-
magnetic signals, or to prevent interference with other equipment?
No

B. Air Conditioning:

Room temperature -- Humidity --
 Output of Instrument BTU/Hr. Heat generated by 420 watt lamp
 If air must be filtered, what is maximum permissible particle size
 in microns? -- What particle count? --
 particles per cubic foot.
 Direct connection to instrument? Yes No X
 If yes to above, what is the desired air temperature to instrument?
 Should discharged air be ducted separately? No
 Is discharged air noxious? No toxic? No
 Connector size to instrument

C. Plumbing:

Is water required for the instrument? Yes No X
 Water pressure Flow in GPM
 Type of water desired:
 Tap OF + OF
 Tempered OF + OF
 Deionized OF + OF
 Filtered OF + OF Particle size and count per
 unit volume.
 Type of pipe required:
 Galvanized Copper
 Stainless Steel Plastic
 Is floor drain required? Yes No
 Diameter of drain Galvanized drain
 Plastic drain Glass drain

D. Compressed Air: None required

Diameter of connectors Type of connectors
 PSI Water free?
 CFM Oil free?

E. Vacuum:

Is vacuum required? Yes No X
 Vacuum required PSIA or (inches) (milli-
 meters) of Hg
 Displacement CFM

IV. REMARKS

In the event additional space is required for environmental conditions
 or utilities not mentioned above, use the reverse side of this form.

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